

CELLULOSE CHEMISTRY AND TECHNOLOGY

ADVANCES IN THE CHEMISTRY, PHYSICS AND TECHNOLOGY OF
POLYSACCHARIDES AND LIGNIN

51 ♦ 2017

5 - 6 ♦ MAY - JUNE

C O N T E N T S

XIAOLI GU, XULIANG ZHOU, MIAOHUA WU, XINYI WANG, YUDI CHEN and KANGHUA CHENG, Kinetic study of pine sawdust pyrolysis <i>via</i> TG/DTG analysis.....	387-394
A. K. BHARIMALLA, P. G. PATIL, S. P. DESHMUKH and N. VIGNESHWARAN, Energy efficient production of nano-fibrillated cellulose (NFC) from cotton linters by tri-disc refining and its characterization	395-401
SANJEEV KUMAR, NIVEDITA SHARMA and SHRUTI PATHANIA, Optimization of process parameters and scale-up of xylanase production from <i>Bacillus amyloliquifaciens</i> SH8 in a stirred tank bioreactor	403-415
WAN-YU LIU, WEI QI, SHU-NA LIU, QIONG WANG, JIN-SONG ZHOU, ZHEN-HONG YUAN and XIN-SHU ZHUANG, A glucose-derived carbonaceous solid acid catalyst for cellooligosaccharides hydrolysis in an aqueous reaction system	417-423
MINGYU ZHANG, K. S. HUI, GUIFEN GONG, K. N. HUI and LIZHU LIU, Pretreatment of lignocellulosic wheat straw in ethanol-water co-solvents	425-432
HE-LONG LI, DIAO SHE, PAI PENG, QIANG XU, JIA-KUN LIU, XUE-MING ZHANG and ZENG-CHAO GENG, Optimizing extraction and structural characterization of organosolv lignin from wheat straw	433-445
PHAN HUY HOANG and NGUYEN VIET LONG, Application of magnetically recyclable ZSM-5 zeolite for enhancement of peroxide bleaching of thermal-mechanical pulp.....	447-454
M. SARWAR JAHAN, M. AZHARUL ISLAM, M. MOSTAFIZUR RAHMAN, JANNATUN NAYEEM, SHAMIM AHMED and M. A. QUAIYYUM, Steam and hot water prehydrolysis of bamboo and its effect on residual lignin structure and pulping	455-463

MARIA T. GARCÍA, ASCENSION ALFARO, JUAN C. GARCIA, MINERVA A. M. ZAMUDIO, ANA B. MORALES and FRANCISCO LÓPEZ, Obtainment of hemicellulose derivatives and cellulose pulp from wheat straw following cold alkaline extraction	465-475
JAMES ATKINSON, ANDRO MONDALA, YURGUEN DOS SANTOS SENGER, RAMEA AL-MUBARAK, BRIAN YOUNG, JAN PEKAROVIC and MARGARET JOYCE, Chitosan as a paperboard coating additive for use in HVAC (heating, ventilation and air conditioning) applications	477-481
DOGAN TUTAK, Modified deinking of digitally printed paper with water based inkjet ink.....	483-488
A. P. MOUTSATSOU, A. V. TERLIXI, A. ALEXOPOULOU and E. G. KOUKIOS, Contribution of Visible and Fluorescence Light Microscopy to a non-invasive authenticity control of paper substrates of 19 th century watercolour paintings	489-495
NANANG MASRUCHIN, BYUNG-DAE PARK and VALERIO CAUSIN, Characterization of cellulose nanofibrils-PNIPAAm composite hydrogels at different carboxyl contents	497-506
TIJANA RISTIĆ, OLIVERA ŠAUPERL and LIDIJA FRAS ZEMLJIČ, Water retention value and mechanical properties of viscose fibres functionalised by chitosan and its water-soluble derivative, N,N,N-trimethyl chitosan	507-512
AFSHIN TAVASOLI and AHMAD SAMARIHA, Optimizing wood flour and nanoclay content of bio-based nano polymer composites (approach to thermal stability)	513-520
PENG WU and ZHIMING LIU, Chitosan aerogel beads with microfibrillated cellulose skeleton for removal of formaldehyde from indoor air	521-528
HOSSEIN HOSSEINZADEH, Freezing-thawing assisted synthesis of novel carrageenan nanomagnetic beads for controlled release of antitumor drugs	529-537
MING-SHIEN YEN, MU-CHENG KUO, CHIEN-WEN CHEN and YEN-SHENG CHENG, Hydrothermal synthesis of alumina/silica hybrid materials and their application on Lyocell fabrics.....	539-549
SAYED M. BADAWEY, Functional cellulosic filter papers prepared by radiation-induced graft copolymerization for chelation of rare earth elements	551-558
ZHI ZHANG, YINGLAN CAO, LINA CHEN and ZHIYONG HUANG, Preparation of thiol-functionalized cellulose and its application to the removal of Hg(II) from water environment.....	559-567
IULIA STANESCU, ANISOARA BERTEA, ANCA BUTNARU, LILIANA ROZEMARIE MANEA and ANDREI-PETRU BERTEA, Determination of influential factors in reactive dye wash-off process using Plackett-Burman experimental design	569-577
LUDMILA CARVALHO NEVES, JEANETTE BEBER DE SOUZA, CARLOS MAGNO DE SOUSA VIDAL, KELLY GERONAZZO MARTINS and BRUNA LUIZA MANAGÓ, Pulp and paper mill effluent post-treatment using microfiltration and ultrafiltration membranes	579-588